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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/693,585	10/24/2003	Klaus U. Schutz	MS1-1819US	1086

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LEE & HAYES PLLC
421 W RIVERSIDE AVENUE SUITE 500
SPOKANE, WA 99201

EXAMINER

COLAN, GIOVANNA B

ART UNIT	PAPER NUMBER
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2162

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PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	10/693,585	SCHUTZ ET AL.	
	Examiner	Art Unit	
	Giovanna Colan	2162	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 30 May 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 9-14 and 17-23 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 9-14 and 17-23 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>11/07/06, 12/04/06</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. This action is issued in response to applicant filed request for continued examination (RCE) on 03/27/2007.
2. Claims 9, 17, and 22 have been amended. No claims were added. Claims 1- 8, 15 – 16, and 24 – 32 were canceled.
3. Claims 9 – 14, and 17 – 23 are pending in this application.

Response to Arguments

4. Applicant's arguments with respect to amended claims 9, 17, and 22 have been considered but are moot in view of the new ground(s) of rejection.

Claim Objections

5. Examiner makes note that claim 17 erroneously has status as "original", even though applicant has amended limitations of such claim.

Information Disclosure Statement

6. The information disclosure statement (IDS) was submitted on 12/04/2006, and 11/07/2006. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Continued Examination Under 37 CFR 1.114

7. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 10/11/2006 has been entered.

Claim Rejections - 35 USC § 103

8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

9. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to

consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

10. Claims 9 – 11, 13 – 14, 17 – 19, and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Botz et al. (Betz hereinafter) (US Patent App. Pub. No. 2003/0177388 A1, filed: March 15, 2002) in view of Kao et al. (Kao hereinafter) (US Patent No. 6,651,168 B1, filed January 29, 1999).

Regarding Claim 9, Betz discloses a method comprising:

receiving a credential from a user at an input device in communication with a local machine having an OS (Page 1 and 2, [0007] and [0033], lines 11 – 13, and 3 – 5 and 10 – 11, Betz¹).

Betz also discloses a plurality of input devices (Fig. 13, items 1402, 1404, and 1400, Page 10, [0141], lines 3 – 5, Betz). However, Betz does not explicitly disclose a plurality of different input devices. On the other hand, Kao discloses: the local machine capable of being in communication with a plurality of different input devices each configured to enable the user to log on with the OS to access the local machine (Fig. 1 A, items 222, 220, 210, 208, 212, and 224, Col. 8, lines 22 – 26 and 38 – 48, Kao).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the Kao's teachings to the system of Betz. Skilled artisan would have been motivated to do so, as suggested by Kao (Col. 2, lines 25 – 28,

Kao), to provide a flexible way to provide diverse user authentication mechanisms and processes for a stand alone computer system or for a computer network. In addition, both of the references (Botz and Kao) teach features that are directed to analogous art and they are directed to the same field of endeavor, such as, databases management systems, receiving credentials, and authentication. This close relation between both of the references highly suggests an expectation of success.

Furthermore, the combination of Botz and Kao discloses:

translating the credential with one of a plurality of different coexisting credential provider modules for translating respectively different types of credentials into a common credential protocol (Page 1, [0007], lines 13 – 17, Botz²), the plurality of different coexisting credential provider modules also enabling the user to log on with the OS to access the local machine with each corresponding different input device that is in communication with local machine (Fig. 13, items 1402, 1404, and 1400, Page 10, [0141], lines 3 – 5, Botz; and Fig. 1 A, items 222, 220, 210, 208, 212, and 224, Col. 8, lines 22 – 26 and 38 – 48, Kao);

using a component of the OS to authenticate the translated credential having the common credential protocol against a credential database (Page 1, [0008], lines 6 – 9, Botz³); and

¹ Wherein the step of forwarding implies the step of receiving the credential claimed. And wherein the user ID and password corresponds to the credential claimed.

² Wherein the authenticated user identity corresponds to the credential (being translated) claimed; the initial authentication unit corresponds to one of different coexisting credential provider modules claimed; and the local user identity corresponds to the common credential protocol claimed.

³ Wherein the step to subsequent authenticate corresponds to the step to authenticate claimed.

logging the user on with the OS to access the local machine when the authentication is successful (Page 3, [0034], lines 7 – 13, Botz⁴).

Regarding Claim 10, the combination of Botz in view of Kao discloses a method, wherein the logging of the user on further comprises logging the user on to the local machine after a plurality of said credentials have been received, translated by a respective said different coexisting credential provider module, and authenticated successfully (Page 7, [0094], lines 6 – 10, Botz⁵).

Regarding Claim 11, the combination of Botz in view of Kao discloses a method, wherein the user is not logged on to the local machine at the time when the translated credentials are authenticated (Page 7, [0094], lines 6 – 10, Botz).

Regarding Claim 13, the combination of Botz in view of Kao discloses a method, wherein each said credential provider module is interoperable, through a credential provider API, to the component of the OS (Fig. 4, item 402, Page 5, [0071], lines 1 – 4, the interfaces services, Botz).

⁴ Wherein the step of sign-on corresponds to the step of logging the user claimed.

⁵ Wherein the step of using the policy information, including trust policy and initial authentication, to signing the user on (Page 7, [0094], lines 1 – 6, Botz) corresponds to the step of logging the user claimed. In addition, Botz discloses the use of a plurality of credentials as claimed (Page 7, [0101], lines 3 – 14, Botz).

Regarding Claim 14, the combination of Botz in view of Kao discloses a computer-readable medium comprising instructions that, when executed by a computer (Page 2, [0030], lines 1 – 4, Botz).

Regarding Claim 17, the combination of Botz in view of Kao discloses a method comprising:

receiving a credential from a user at an input device in communication with a local machine having an OS (Page 1 and 2, [0007] and [0033], lines 11 – 13, and 3 – 5 and 10 – 11; respectively, Botz⁶), the local machine capable of being in communication with a plurality of different input devices, each capable of receiving a credential from the user to enable the user to log on to access the local machine with the OS (Fig. 13, items 1402, 1404, and 1400, Page 10, [0141], lines 3 – 5, Botz; and Fig. 1 A, items 222, 220, 210, 208, 212, and 224, Col. 8, lines 22 – 26 and 38 – 48, Kao);

translating the credential with a credential provider module that corresponds to the input device (Page 1 and 3, [0007] and [0046], lines 13 – 17 and 1 – 10; respectively, Botz⁷), wherein:

the credential provider module is one of a plurality of coexisting different said credential provider modules (Page 3, [0042], lines 1 – 5, a particular server within a defined trust set of servers, Botz); and

⁶ Wherein the step of forwarding implies the step of receiving the credential claimed. And wherein the user ID and password corresponds to the credential claimed.

⁷ Wherein the step of identifying to a particular server (Page 3, [0046], lines 4 – 8, Botz) corresponds to the step of translating to the corresponding input device claimed.

each said credential provider module can perform a translation of a respectively different type of said credential received at a different said input device in communication with the local machine (Page 1 and 4, [0007] and [0050], lines 13 – 17 and 1 – 6; respectively, Botz); and

each said translation of each said credential is in a common credential protocol (Page 1, [0007], lines 13 – 17, Botz⁸);

communicating the translated credential having the common credential protocol through a credential provider interface to a logon UI routine of the OS (Page 7, [0090], lines 1 – 5, Botz⁹);

passing the translated credential having the common credential protocol to a logon routine of the OS from the logon UI routine (page 7, [0091], lines 1 – 4, Botz);

authenticating the translated credential against a credential database with the logon routine of the OS (Page 1 and 7, [0008] and [0092], lines 6 – 9 and 1 – 5; respectively, Botz¹⁰); and

logging the user on to access the local machine with the OS when the authentication is successful (Page 3 and 7, [0034] and [0094], lines 7 – 13 and 6 – 10; respectively, Botz¹¹).

⁸ Wherein the local user identity corresponds to the common credential protocol claimed.

⁹ Wherein the identity translation token (ITT) and/or the identity translation token reference (ITTR) correspond to the translated credential claimed. And wherein the server's interface services correspond to the credential provided interface claimed. Botz specifically discloses the logon UI routine in Page 7, [0092], and lines 1 – 8.

¹⁰ Wherein the step of performing subsequent authentication corresponds to the step of authenticating claimed.

¹¹ Wherein the step of sign-on corresponds to the step of logging the user claimed.

Regarding Claim 18, the combination of Botz in view of Kao discloses a method, wherein the logging the user on to access the local machine with the OS further comprises deferring the logging on of the user to access the local machine until the receiving, the translating, the communicating, the passing, and the authenticating successfully have been repeated for each of a plurality of said credentials (Page 7, [0094], lines 6 – 10, Botz¹²).

Regarding Claim 19, the combination of Botz in view of Kao discloses a method, wherein the user is not logged on to access the local machine when the translated credentials are authenticated against the credential database with the logon routine of the OS (Page 7, [0094], lines 6 – 10, Botz).

Regarding Claim 21, the combination of Botz in view of Kao discloses a computer-readable medium comprising instructions that, when executed by a computer, perform the method of claim 17 (Page 2, [0030], lines 1 – 4, Botz).

Regarding Claim 22, the combination of Botz in view of Kao discloses a computer-readable medium comprising a credential provider module including instructions that, when executed by a local machine having an OS, receive and translate a credential into a credential protocol so as to be compatible for authentication

¹² Wherein the step of using the policy information, including trust policy and initial authentication, to signing the user on (Page 7, [0094], lines 1 – 6, Botz) corresponds to the step of logging the user claimed. In addition, Botz discloses the use of a plurality of credentials as claimed (Page 7, [0101], lines 3

by an authentication component of the OS against a credential database for logging a user identified by the credential on with the OS to access the local machine when the authentication is successful, wherein:

the translated credential can be received via an interface to the authentication component of the OS (Page 1 and 2, [0007] and [0033], lines 11 – 13, and 3 – 5 and 10 – 11; respectively, Botz¹³);

the interface (Fig. 3, items 314, and 316, Page 4, [0058], lines 1 – 4, Botz) to the authentication component of the OS is compatible for receiving each of a plurality of said credentials (Page 1 and 2, [0007] and [0033], lines 11 – 13, and 3 – 5 and 10 – 13; respectively; wherein the step of forwarding implies the step of receiving the credential claimed. And wherein the user ID and password corresponds to the credential claimed; Botz) from a corresponding plurality of different coexisting credential provider modules (Page 1 and 4, [0007] and [0050], lines 13 – 17 and 1 – 6, multiple security user registries of multiple computer platforms; respectively, Botz); and

each said different coexisting credential provider module can:

receive a respective different type of said credential from a respective input device (Fig.10, items 1104, 1108, 1110, and 1112, Page 9, [0123], lines 8 – 11, Botz¹⁴), each respective input device capable of coupling to the local machine and enabling the user to log on with the OS to access the local machine (Fig. 13,

– 14, Botz). By signing the user on after the information is authenticated, the system is deferring the signing on or logging on.

¹³ Wherein the step of forwarding implies the step of receiving the credential claimed. And wherein the user ID and password corresponds to the credential claimed.

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items 1402, 1404, and 1400, Page 10, [0141], lines 3 – 5, Botz; and Fig. 1 A, items 222, 220, 210, 208, 212, and 224, Col. 8, lines 22 – 26 and 38 – 48, Kao); and

translate each said different type of said credential into the credential protocol so as to be compatible for authentication by the authentication component of the OS against the credential database (Page 3, [0039], lines 1 – 6, an infrastructure to support run-time cooperation between disparate security registry user, Botz).

11. Claims 12, 20, and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Botz et al. (Botz hereinafter) (US Patent App. Pub. No. 2003/0177388 A1, filed: March 15, 2002), in view of Kao et al. (Kao hereinafter) (US Patent No. 6,651,168 B1, filed January 29, 1999), and further in view of Axel et al. (Axel hereinafter) (US Patent App. Pub. No. 2004/0139355 A1, filed: November 7, 2002).

Regarding Claim 12, the combination of Botz in view of Kao discloses all the limitations as disclosed above including a method, wherein the use of the component of the OS to authenticate the translated credential having the common credential protocol against the credential database further comprises:

¹⁴ Wherein examiner interprets the step where a first user signs on using Public Key infrastructure (PKI), and a second user signs on using Kerberos (Page 9, [0123], lines 8 – 11, Botz) as the step of receiving different type of credential from respective input device as claimed.

communicating the translated credential to an LSA (Page 7, [0090], lines 1 – 5, Botz¹⁵); and

determining the authentication with the LSA against the credential database (Page 7, [0090], lines 6 – 9, Botz¹⁶) that is selected from the group consisting of:

a local database other than the SAM database (Page 5, [0069], lines 3 – 5, local user registry, Botz);

a remote credential database (Page 5, [0067], lines 12 – 14, LDAP-accessible storage, Botz¹⁷);

a token protocol credential service (Page 9, [0133], lines 2 – 6, HyperText Transfer Protocol (HTTP), Botz);

a challenge and response protocol service (Page 9, [0133], lines 1 – 6, HyperText Transfer Protocol (HTTP), Botz¹⁸);

In addition, the combination of Botz in view of Kao further discloses KDC (Fig. 10, item 1102, Kerberos, Botz). However, the combination of Botz in view of Kao is silent with respect to a SAM database; and an AD at a domain remote from the local machine. On the other hand, Axel discloses a system including a SAM database (Page 2, [0018], lines 3 – 5, Axel); an AD (Page 2, [0017], lines 4 – 5, Axel) and KDC at a

¹⁵ Wherein examiner interprets the AIT domain controller as the LSA claimed; and the identity translation token (ITT) and/or the identity translation token reference (ITTR) as the translated credential claimed.

¹⁶ Wherein the step of validating the translated token using a copy of the signing value retained at the AIT domain controller corresponds to the step of determining the authentication against the credential database as claimed. In addition, Botz further discloses that this controller utilizes databases to store the information (Page 6, [0086], lines 3 – 7, Botz).

¹⁷ Wherein the LDAP-accessible storage corresponds to the remote credential database claimed. The reason is because this storage is retrieved upon a server session, which would imply a remote session.

domain remote from the local machine (Page 2, [0017], lines 1 – 3, Axel); and an LSA (Page 2, [0021], lines 1 – 2, Axel). It would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the Axel's teachings to the system of the combination of Botz in view of Kao. Skilled artisan would have been motivated to do so, as suggested by Axel (Page 1, [0002], lines 1 – 4, Axel), to provide access to various password-enabled computer network elements through the use of a single password enabled network element. In addition, the applied references (Botz, Kao, and Axel) teach features that are directed to analogous art and they are directed to the same field of endeavor of databases management systems, such as, authentication, and login users. This close relation between the applied references highly suggests an expectation of success.

Regarding Claim 20, the combination of Botz in view of Kao and further in view of Axel discloses a method, wherein the authenticating of the translated credential against the credential database with the logon routine of the OS further comprises:

communicating the translated credential to an LSA from the logon routine of the OS (Page 7, [0090], lines 1 – 5, Botz¹⁸; and Page 2, [0021], lines 1 – 2, LSA, Axel); and

determining the authentication with the LSA against the credential database (Page 7, [0090], lines 6 – 9, Botz²⁰; and Page 2, [0021], lines 1 – 2, LSA, Axel) that is selected from the group consisting of:

¹⁸ Wherein the feature of extracting corresponds to the challenge claimed; and the feature of passing corresponds to the response claimed.

¹⁹ Wherein examiner interprets the AIT domain controller as the LSA claimed; and the identity translation token (ITT) and/or the identity translation token reference (ITTR) as the translated credential claimed.

a SAM database (Page 2, [0018], lines 3 – 5, Axel);
a local database other than the SAM database (Page 5, [0069], lines 3 – 5, local user registry, Botz);
a remote credential database (Page 5, [0067], lines 12 – 14, LDAP-accessible storage, Botz²¹);
a token protocol credential service (Page 9, [0133], lines 2 – 6, HyperText Transfer Protocol (HTTP), Botz);
a challenge and response protocol service (Page 9, [0133], lines 1 – 6, HyperText Transfer Protocol (HTTP), Botz²²); and
an AD (Page 2, [0017], lines 4 – 5, Axel) and KDC at a domain remote from the local machine (Page 2, [0017], lines 1 – 3, Axel; and Fig. 10, item 1102, Kerberos, Botz).

Regarding Claim 23, the combination of Botz in view of Kao and further in view of Axel discloses a computer-readable medium, wherein the authentication component of the OS comprises:

a logon UI module (Page 6, [0076], lines 1 – 5, Botz);

²⁰ Wherein the step of validating the translated token using a copy of the signing value retained at the AIT domain controller corresponds to the step of determining the authentication against the credential database as claimed. In addition, Botz further discloses that this controller utilizes databases to store the information (Page 6, [0086], lines 3 – 7, Botz).

²¹ Wherein the LDAP-accessible storage corresponds to the remote credential database claimed. The reason is because this storage is retrieved upon a server session, which implies a remote session.

²² Wherein the feature of extracting corresponds to the challenge claimed; and the feature of passing corresponds to the response claimed.

an OS logon module for receiving Remote Procedure Call (RPC) calls from the log UI module (Page 6, [0083], lines 1 – 5, remote sign-on, Botz); and

an LSA for determining the authentication, and in communication with, the credential database (Page 7, [0090], lines 6 – 9, Botz²³) that is selected from the group consisting of:

a SAM database (Page 2, [0018], lines 3 – 5, Axel);

a local database other than the SAM database (Page 5, [0069], lines 3 – 5, local user registry, Botz);

a remote credential database (Page 5, [0067], lines 12 – 14, LDAP-accessible storage, Botz²⁴);

a token protocol credential service (Page 9, [0133], lines 2 – 6, HyperText Transfer Protocol (HTTP), Botz);

a challenge and response protocol service (Page 9, [0133], lines 1 – 6, HyperText Transfer Protocol (HTTP), Botz²⁵); and

an AD (Page 2, [0017], lines 4 – 5, Axel) and KDC at a domain remote from the local machine (Page 2, [0017], lines 1 – 3, Axel; and Fig. 10, item 1102, Kerberos, Botz).

²³ Wherein the step of validating the translated token using a copy of the signing value retained at the AIT domain controller corresponds to the step of determining the authentication against the credential database as claimed. In addition, Botz further discloses that this controller utilizes databases to store the information (Page 6, [0086], lines 3 – 7, Botz).

²⁴ Wherein the LDAP-accessible storage corresponds to the remote credential database claimed. The reason is because this storage is retrieved upon a server session, which implies a remote session.

²⁵ Wherein the feature of extracting corresponds to the challenge claimed; and the feature of passing corresponds to the response claimed.

Prior Art Made Of Record

1. Botz et al. (US Patent App. Pub. No. 2003/0177388 A1, filed: March 15, 2002) discloses authenticated identity translation within a multiple computing unit environment.
2. Axel et al. (US Patent App. Pub. No. 2004/0139355 A1, filed: November 7, 2002) discloses a method and system of accessing a plurality of network elements.
3. Hartman et al. (US Patent No. 6,807,636 B2) discloses methods and apparatus for facilitating security in a network.
4. Kao et al. (US Patent No. 6,651,168 B1, filed January 29, 1999).


Points Of Contact

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Giovanna Colan whose telephone number is (571) 272-2752. The examiner can normally be reached on 8:30 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Breene can be reached on (571) 272-4107. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Giovanna Colan
Examiner
Art Unit 2162
May 30, 2007


SANA AL-HASHEMI
PRIMARY EXAMINER